



### **8.16.3 C-A Cooling Systems Operating Guidelines**

#### **1. Purpose**

To provide general operating instruction to the Water Systems technicians for the operation of C-A cooling systems.

#### **2. Responsibilities**

Water Systems technicians start and stop these systems.

#### **3. Prerequisites**

3.1 Startup - Request permission from affected personnel, CAS, MCR.

3.2 Verify that secondary cooling is on.

3.3 Shutdown - Request permission from affected personnel or groups.

3.4 Qualified and trained Water Systems technician.

#### **4. Precautions**

4.1 Do not operate pumps without water, or with valves closed, (equipment and personnel damage possible due to steam entrapment).

4.2 Systems with PLC Control have Automatic Restart, (LOTO required for any work on holding equipment).

#### **5. Procedure**

5.1 Verify that water level is within operating level.

5.2 Open suction and discharge valves on selected pump.

5.3 Verify circuit breaker is off.

5.4 Roll pump shaft by hand.

5.5 Reduce set point on pressure controller, if applicable, to 25 - 50 psi.

5.6 Turn on circuit breaker for selected pump.

5.7 Start pump in hand at local start/stop station, or In Auto with reset at plc Rack.

- 5.8 Increase set point on pressure controller, if applicable, to system supply pressure set point.
- 5.9 Verify system parameters are within range for proper operation.
- 5.10 Observe pump operation and restore alarms, if applicable.
- 5.11 For shutdown, turn off pump, close suction and discharge valves, and secure alarms, if applicable.
- 5.12 Inform Water Group Watch of change of equipment status.

**6. Documentation**

None

**7. References**

None

**8. Attachments**

None